

GSHWG and AAWG Report to ARAC

March 28, 2001

Amos Hoggard

Boeing Commercial Airplane Group

Discussion Issues

- GSHWG Membership
- GSHWG Status Report
- AA WG Membership
- AA WG Status Report

GSHWG Membership

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General Structures

Harmonization Working Group

- General Status Report
- Administrative Issues
- FAR 25.365(d) Work Plan and Schedule
- FAR 25.571 - Status/Schedule
- FAR 25.631 - Status
- FAR 25.683 - Work Plan and Schedule

General Structures HWG

March 2001

1000000
1000000

155000
to be paid

Assisment
Doc

5

GSHWG/AAWG REPORT TO TAEIG

5

*Amie's to Ibadan
JAA Quarterly
for 2000
Support*

Administrative Issues

- JAA Support of the GSHWG Activity

- October 2000 Meeting, GSHWG 2001 Meeting Schedule set
 - Feb 12-16, 2001 Savannah GA
 - April 23-27, 2001 Wichita KS
 - June 18-22, 2001 Toulouse FR
 - October 8-12 Hamburg GR
 - December 10-14, 2001 Seattle WA
- December 2000, GSHWG Agreed each meeting to last five days
- February 2001, JAA changed position - now could support only a 3.5 day meeting. *68 2/3 of action item*
 - Travel Budget
 - Family Issues

*JAA support to
Travel Budget
Family Issues*

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GSHWG/AAWG REPORT TO TAEIG

fundamental issues

Administrative Issues Con't

- In 1998, the GSHWG submitted 25.613 for FAA review and publication.
- Last month we started receiving inquiries from the economist asking if our three year old numbers were still accurate.
- It's really tough to run a railroad like this!

HWB does not respond to e-mail for many months email needs review & not sure if not done
HWB
Hogson

work to little
FA 2-10

FAR 25.365(d) - High Altitude Flight

AVIATION RULEMAKING ADVISORY COMMITTEE WORKING GROUP STATUS FORM

Parent Issue Group: ARAC - Transport Airplane and Engines Date: 3/28/01

Working Group Name: Structures General Harmonization Working Group

Task Title: High Altitude Flight, 25.365(d), AC 25-20 Para 8

Harmonization Number (If Applicable)

Task Description: Review 14 CFR 25.365(d). In particular the factors applied to the maximum relief value setting, which is used to set a limit structural design loan (load). Review FAA and Joint Aviation Authority (JAA) advisory material and paragraph 8 of Advisory Circular 25-20. In light of this review, develop a report recommending changes to harmonize this section and the corresponding JAR paragraphs, recommending new harmonization standards, and develop related or revised advisory material as well.

Product: NPRM ☒ AC ☒ Other ☐

TASKING PUBLISHED	SCHEDULE	FORECAST	COMPLETE
WORK PLAN APPROVAL		March 2001	October, 2000
TECHNICAL AGREEMENT- REQUEST DRAFTING SUPPORT		October, 2001	March 2001
DRAFT OF PRODUCT REVIEW- REQUEST ECON-LEGAL REVIEW		December 2001	
COMPLETION OF ECON-LEGAL REVIEW		May 2002	
RECOMMEND TO ARAC (ISSUE GROUP)		June 2002	
RECOMMEND TO FAA		July 2002	
PUBLISH NOTICE		2 nd Qtr 2003	
PUBLISH FINAL		2 nd Qtr 2004	

Status: Working Group has developed a list of technical areas where agreement is needed. There is, in addition, a collateral tasking in 25.841 that affects this activity. Some of our work will depend on how that tasking is approached. The Mechanical Controls Working Group Chair has been approached to determine the best way to interface.

Next Action: TAEIG Acceptance of approach

Future Meetings: Wichita KS, April 2001

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GSHWG/AAWG REPORT TO TAEIG

FAR 25.571 Damage Tolerance

AVIATION RULEMAKING ADVISORY COMMITTEE WORKING GROUP STATUS FORM

Parent Issue Group: ARAC - Transport Airplane and Engines Issues Group
Date: 3/28/01

Working Group Name: Structures General Harmonization Working Group

Task Title: Fatigue and Damage Tolerance 25.571

Harmonization Number (if Applicable):

Task Description: Develop a harmonized 25.571 rule and advisory material.
Product: NPRM ☒ X AC ☒ X Other ☐

SCHEDULE	FORECAST	COMPLETE
WORK PLAN APPROVAL		July 1996
TECHNICAL AGREEMENT		October 1997
REQUEST DRAFTING SUPPORT		Rev. March 1998
Reopening due to Amdt 96 and AAWG	August 1999	August 1999
DRAFT OF PRODUCT REVIEW	2 nd Quarter 2001	
REQUEST ECON-LEGAL REVIEW		
COMPLETION OF ECON-LEGAL REVIEW	3 rd Qtr 2001	
RECOMMEND TO ARAC (ISSUE GROUP)	December 2001	
PUBLISH NOTICE	1 st Qtr 2002	
	2 nd Qtr 2002	
PUBLISH FINAL	3 rd Qtr 2002	

Status:

HWG Technical Agreement was reached March 1998. FAA published Amendment 25-96 and AC in March 1998. The harmonized preamble has been revised in light of the new rule. HWG has reconsidered the status of it's work and has agreed to reopen the harmonization effort in light of Amdt 96 and the work of the AAWG and FAA/Industries desire to re-instate fail-safe requirements. Estimate of work package to be submitted is:

1. REVISED 25.571
2. REVISED AC 25.571
3. NEW RULE 25.6XX - FAIL-SAFE
4. NEW AC 25.6XX - FAIL-SAFE
5. REVISED 25.1529

New Estimated completion date - 3rd quarter 2001. - *very optimistic*
Next Action: TOGAA review of work product on Fail-Safety, continue to review rule and AC language. - *with the by Oct 75*

Future Meetings: Wichita, April 2001

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GSHWG/AAWG REPORT TO TAEIG

FAR 25.631 Bird Strike

AVIATION RULEMAKING ADVISORY COMMITTEE WORKING GROUP STATUS FORM

Date: 3/28/01

Parent Issue Group

ARAC - Transport Airplane and Engines
Issues Group

Working Group Name

Structures General Harmonization Working Group

Task Title

Birdstrike Damage

Harmonization Number (if Applicable) 17

Task Description

Develop new or revised requirements for the evaluation of transport category airplane structure for in-flight collision with a bird, including the size of the bird and the location of impact on the airplane (FAR 25.571, 25.631, 25.775, and other conforming changes).

Product:

NPRM ☒ AC ☒ Other ☐

SCHEDULE	FORECAST	COMPLETE
WORK PLAN APPROVAL		February 1994
TECHNICAL AGREEMENT		October 1994
REQUEST DRAFTING SUPPORT		
DRAFT OF PRODUCT REVIEW		July 7, 1995
REQUEST ECON-LEGAL REVIEW		
ASSIST FAA IN COMPLETION OF UIUC R&D PROGRAM	Jan 2002	
REASSESS TECHNICAL POSITION AND SET COURSE OF ACTION	April 2002	
SUBMIT REVISED DOCUMENTS FOR ECON-LEGAL REVIEW	June 2002	
COMPLETION OF ECON-LEGAL REVIEW	Sept 2002	
RECOMMEND TO ARAC (ISSUE GROUP)	December 2002	
PUBLISH NOTICE	First Qtr 2003	
PUBLISH FINAL	3rd Qtr 2004	

Status:

FAA/JAA position on Bird Weight has been published, FAA is currently involved with UIUC in an R&D program to develop bird populations and probability of airplane/bird encounters. Industry has agreed to assist.

Next Action: Waiting for results of the FAA sponsored R&D program

Future Meetings: As necessary

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GSHWG/AAWG REPORT TO TAEIG

FDN as issued rule

rule change in the change in the

representative of the industry

CM

FAR 25.683 - Operational Tests

AVIATION RULEMAKING ADVISORY COMMITTEE WORKING GROUP STATUS FORM

Date: 3/28/01

Parent Issue Group ARAC - Transport Airplane and Engines
Issues Group

Working Group Name Structures General Harmonization Working Group

Task Title Operational Tests, 25.683

Harmonization Number (If Applicable)

Task Description: Develop advisory material for enveloped per fast track report.

Product: NPRM ☒ AC ☒ Other ☐

SCHEDULE	FORECAST	COMPLETE
WORK PLAN APPROVAL		December 2000
ESTABLISH SPECIALIST SUB-TEAM	April 2001	
TECHNICAL AGREEMENT- REQUEST DRAFTING SUPPORT	October 2001	
DRAFT OF PRODUCT REVIEW- REQUEST LEGAL REVIEW	January 2002	
COMPLETION OF LEGAL REVIEW	2 nd Qtr 2002	
RECOMMEND TO ARAC (ISSUE GROUP)	3 rd Qtr 2002	
PUBLISH NOTICE	4 th Qtr 2002	
PUBLISH FINAL	4 th Qtr 2003	

Status: HWG has determined that a sub group of specialists is required to establish the advisory material. The HWG will assign the responsibility to this group of individuals to come up with the required AC material.

Next Action: TAEIG approval of approach

Future Meetings: Wichita, April 2001

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GSHWG/AWG REPORT TO TAEIG

Proposed Sub-Team Membership for AC 25.683

Cessna – Andy Kasowski

Airbus - Traverse

Boeing

Raytheon

CAA-UK

DGAC

CAA-NL

FAA - Greg Schneider

TC – John Melo

AAWG Membership

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Yerger	YES	mdyerger@fedex.com

Airworthiness Assurance Working Group

- Chairperson Changes
- December, 1999 Tasking – WFD
- March 22, 2001 Tasking RE: Multiple Complex STCs

Chairperson Changes

- In September 2000, the Chairpersons of the AAWG changed.
 - Kyatsandra Gopinath (Boeing) accepted the co-chair spot vacated by Jack McGuire (Boeing)
 - Aubrey Carter (Delta Air Lines) accepted the co-chair spot vacated by Jim Foucault (UPS)

December 1999 Tasking RE: WFD

- Status - At FAA for Final Legal/Economic Assessments
- Legal Assessment - All Reports Look Positive
- Economic Assessment
 - First two evaluations - failed *look new*
 - Third evaluation shows some promise

WFD Tasking Continued

- AAWG had hoped to present a final document at this meeting, Because of economic eval difficulties, this will be delayed until the June meeting.
- It is estimated that this will not affect the overall time line that the FAA/Industry has been working to.

March 22, 2001 Tasking RE: Multiple Complex STCs

- We will be much better prepared to talk about this at the next meeting.

*also not have full
data on compliance
by*